

BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Detail Estimate for Repairs to the Panel board and Shifting of High Mast in Byatarayanapura Constituency

Budget Head:-

Ward No.5 to 11

Estimate No. 34/15-16

For Rs.1,50,000.00

Sl. No.	Description of item	Qty	Rate	Unit	Amount
Foundation Work: KPWD Civil SR 2013-14					
1	KSRB 2-1.1 : Earthwork in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sided and bottom and backfilling with approved material complete as per specifications I. Ordinary soil - A Manual Means (i) Depth upto 3m MORTH Specification No.304. {Pg No.221 I.No. 27.1}	13.13	80.95	Cum	1062.82
2	KSRB 4-1.3: Providing and laying in position plain cement concrete mix M7.5 with OPC cement @ 180kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation and plinth including cost of all materials labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (PWDSR 2012-13 Pg No-12, Item No-4.3)	0.46	3812.82	Cum	1753.90
3	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs with 20mm and down size graded granite metal coarse aggregates @ 0.69cum and fine aggregates @ 0.46cum with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C.beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(excluding cost of steel, fabrication & plastering)Specification No. KBS 4.1, 4.6 (PWD SR 2011-12 Page no-15, Item No.4.17)	3.29	5142.06	Cum	16917.38
4	KSRB 4.9.2 : Providing TMT steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete, as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries complete as per specifications. Specification No.KBS 4.6.3 (PWDSR 2012-13 Page no-19, Item No-4.46)	1.48	6781.00	Qtl	10035.88
5	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/ rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (PWDSR 2012-13 Page no-17, Item No-4.32)	10.18	298.92	Sqm	3043.01
1 P.No-23 I.No-4.18	Supplying High pressure Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923- performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250Volts 50Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass, prewired to terminal block. 4.18.3) 400Watts	6.00	10311.00	Each	61866.00
2 P.No-55 I.No-7.4.4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 7.4.5. 3.5 core 25 sqmm	45	165.60	P/Mtr	7452.00

3 P.No-61 I.No-7.8.1	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall / Structure In existing trench/duct				
	7.8.2. 25 sqmm to 75 sqmm	45	16.20	P/Mtr	730
4 P.No-61 I.No-7.9	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)b. In soil (ordinary)	30	78.00	P/Mtr	2340.00
5 P.No-45 I.No-6.12.4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 100-125Amps	1	9915.00	Each	9915.00
6 P.No-49 I.No-6.40.1	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 14 SWG	12000	0.37	Sq cm	4440.00
7 P.No-51 I.No-6.46	Supplying and fixing Microprocessor based Astronomical timer Switch with using necessary bolts, nuts and washers.	1	4586.00	Each	4586.00
8 P.No-49 I.No-6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40x40x6mm.	6	263.00	Mtr	1578.00
9 P.No-45 I.No-6.7.4	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers .100 Amps	3	360.00	Each	1080.00
10 P.NO-55 I.No-7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm alround the pipe to complete depth. the connection from the pipe to the conduit etc, is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	1	2727.00	Each	2727.00
11 P No-62 I.No-7.13.3	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV calss UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 25 Sqmm	1	362.00	Each	362.00
12	Material Components for Anchor Plates (IS 2062) SI no 423, code no 0712, Page No XV,	3	235.00	Each	705.00
13	Material Component Steel wire Rope 40 mm SI no 258, code no 0958, Page No IX,	10	52.00	kgs	520.00
14 P.No-108 I.No-17.5	Fixing halogen/metal halide/SVL/IL /LED floodlight fitting over existing pole/wall ceiling including clamps ,bolts ,nuts and wiring using suitable capacity wires complete .	6	176.00	Each	1056.00
15	Hire Charges for Cranes 80 Tonnes SIno-86 P.No-49 KPWD SR Civil 14-15	20	886.00	hr	17720.00
	Miscellaneous				111.02
Total					150000.00

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 Rates

Administrative Sanction for Rs. 2.00 Lakh

Two Lakh Only

Assistant Engineer (Ele)
Yelahanka Zone

is accorded under P.O.298 M.O. and R to
Electrical Installations in parks
and Gardens play Grounds

Registered as Subject

to conditions contained in enclosed memo

No. EE/El/42/AS/14/15-16 date 11.03.2016

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 2.00 Lakh
Rupees Two Lakh Only

Under P.O.298 M.O. and R to
Electrical Installations in parks
Yelahanka Zone

Registered as EE () No. 99

Subject to conditions contained in
enclosed memo EE () No. EE/El/42/AS/14/15-16

Dt. 11.03.2016 Estimate/AS Sanctioned

EE/El/42/AS/14/15-16 No. 99

Dated 14.03.2016 Rs. 2.00 Lakh

Executive Engineer